

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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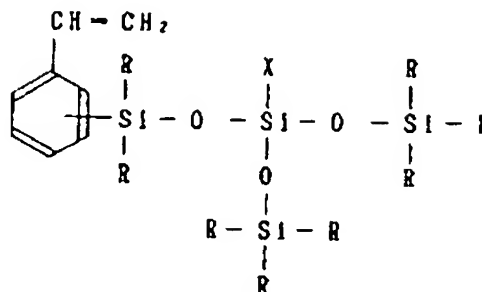
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TITLE : GAS-PERMEABLE MATERIAL



**ABSTRACT :** **PURPOSE:** To provide a transparent material having excellent gas-permeability, especially oxygen-permeability and excellent gas selectivity and composed of a polymer produced by polymerizing a styrene derivative containing a siloxane part having branched chain structure wherein the Si atom. of the branched part does not directly bonded to styrene.

**CONSTITUTION:** The objective gas-permeable material is composed of a polymer having a molecular weight of preferably 100,000~1,000,000 and produced by heating a styrene derivative of formula (R is CH<sub>3</sub>; X is CH<sub>3</sub> or trimethylsilyloxy) [e.g. pentamethyl-3,3-bis(trimethylsiloxy)trisiloxanylstyrene and hexamethyl-3-trimethylsiloxytrisiloxanylstyrene] at room temperature~130°C usually in the presence of a radical polymerization initiator such as azobisisobutyronitrile. The material is useful as a contact lens, oxygen-enriching membrane, etc.

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